Applicants herewith submit a Declaration which is duly executed by Dr. Witschel, one of the inventors of the invention disclosed and claimed in the present application. Dr. Witschel's Declaration includes the data which were previously presented by applicants. It is further respectfully solicited that the Examiner give full and due consideration to applicants' arguments, presented in their previous reply, why the Claims of Otten et al. when taken in view of the disclosure of Barton cannot be deemed to establish that the subject matter of applicants' claims was obvious at the time the invention was made. In light of the attached and the remarks already presented by applicants in their previous reply it is therefore respectfully requested that the Examiner favorably reconsider the rejection of applicants' Claims 1 to 7, 10, 17, 22 and 23 under the judicially created doctrine of obviousness-type double patenting based on the claims of Otten et al. and the disclosure of Barton. Favorable action is solicited.

REQUEST FOR EXTENSION OF TIME:

It is respectfully requested that a *two* month extension of time be granted in this case. The respective \$450.00 fee is paid by credit card (Form PTO-2038 enclosed).

Please charge any shortage in fees due in connection with the filing of this paper, including Extension of Time fees, to Deposit Account No. 14.1437. Please credit any excess fees to such deposit account.

Respectfully submitted,

NOVAK DRUCE DELUCA & QUIGG, LLP

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Encl.: Dr. Witschel's Declaration dated May 30, 2005
JDV/BAS

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IN THE UNITED STATES PATENT AND TRADEMARKOUS

REITSTOETTER, KINZEBACH&PAR

In re Application of:

Witschel et al.

Serial No. 09/763,704

Group/Art Unit: 1625

Filed: 02/26/01

Examiner: Celia C. Chang

For: Cyclohexenonquinolinoyl-derivatives as herbicidal agents

DECLARATION

1. I, Matthias Christan Witschel, Dr. rer. nat., a citizen of the Federal Republic of Germany, hereby declare as follows:

I am a fully trained chemist having studied biology at the University of Erlangen, Nümberg, Germany, from 1985 to 1994. I received the doctorate (PhD) by said university in 1994. From 1994 to 1995 I did postdoctoral research at Stanford University. I joined BASF Aktiengesellschaft of 67056 Ludwigshafen, Germany in 1996, and have since then been working in the field of herbicides, and am therefore fully conversant with the prior art.

I am one of the inventors of the subject-matter disclosed and claimed in Appl. Ser. No. 09/763,704 and I am therefore familiar therewith.

- I have read and fully understood the Office Action of February 1 2005 and the
 references cited therein by the Examiner and conceived the comparative tests
 described below.
- 3. The following compounds 1 to 11 of the general formulae Ia and Ib were tested with respect to their herbicidal activity. The meanings of the radicals R^a and R^b are given in table 1.

Table 1:

Compound No.	Formula	Rª	R⁵	Example Nr.
1	la	CI	F	2.23
2 (comp)	la	ОН	F	12.03 of US 6479436
3	la	O-C(O)-SCH ₃	F	2.17
4	la	F	CI	2.57
5 (comp)	la	OH	CI	12.05 of US 6479436
6	lb	CI	ÇI	3.1
7	lb	S-C(O)-N(CH ₃) ₂	CI	3.4
8	lb	_N	CI	3.5
9	la	OCH ₃	CH₃	2.18
10 (comp)	la	ОН	CH₃	12.01 of US 6479436
11	lb	1,2,4-triazin-4-yl	CH ₃	3.2

comp = comparative compound

The tests were performed as a post-emergent treatment as described on page 89 of the application (greenhouse experiments):

Test plants were grown in plastic pots of approximately 12.5 cm in diameter in a substrate provided with sufficient nutriants and water to a height of 3 to 15 cm, depending on the growth habit. The plants were then treated with aqueous spray containing the active ingredient. The rate of application were 0.500, 0.250, 0.125, 0.0624, 0.0312 or 0.0156 or 0.0078 kg/ha of active substance.

Depending on the species the plants were kept at 10-25°C or 20-35°C for 2 to 4 weeks. During the test period, the plants were tended, and their response to the individual treatments was evaluated. Evaluation was carried out using a scale from 0 to 100. 100 means complete (100 %) destruction of at least the aboveground parts of the plants and 0 means no damage or normal course of growth. The results obtained are given in tables 2 to 9.

Table 2:

	Compour	nd 1	Comparative Compound		
Application rate [kg/ha]	0.0312	0.0156	0.0312	0.0156	
Test plants Echinocloa cruss galli	85	85	85	70	
Galium aparine	85	80	80	75	
Polygonum per- sicaria	98	98	70	60	
Setaria faberi	80	80	60	40	

Table 3:

	Compound 4		Comparative C	compound 5
Application rate [kg/ha]	0.0625	0.0312	0.0625	0.0312
Test plants				
Zea mays	0	0	50	40
Abuthilon theoprasti	100	95	80	80
Brachiaria plan- taginea	95	95	85	80
Echinocloa cruss galli	100	95	80	75
Galium aparine	98	98	75	60
lpomoea spp.	95	90	80	75

Table 4:

	Compound	9	Comparativ	e Compound 10
Application rate [kg/ha]	0.0625	0.0312	0.0625	0.0312
Test plants Triticium aestivum	0	0	20	15
Chenopodium al-	90	90	80	75
Galium aparine	95	90	85	75
Sinapsis alba	95	85	80	75

Table 5:

	Compound	d 3	Comparati	ve Compound 2
Application rate [kg/ha]	0.125	0.0625	0.125	0.0625
Test plants Amaranthus retroflexus	98	85	90	75
Echinocloa cruss galli	100	90	75	65
Panicum mili- aceum	95	95	95	80

Table 6:

	Compound	6	Comparativ	e Compound 5
Application rate [kg/ha]	0.0625	0.0312	0.0625	0.0312
Test plants Chenopodium album	95	95	95	85
Galium aparine	98	95	75	60
Polygonum per- sicaria	95	90	90	85
Sinapsis alba	98	95	90	85

Table 7:

	Compound	d 6	Comparati	ve Compound 5
Application rate [kg/ha]	0.500	0.250	0.500	0.250
Test plants Alopecurus myosuroides	98	98	90	90
Amaranthus re- troflexus	100	100	90	80
Avena fatua	95	90	95	80

Table 8:

	Compoun	d 11	Comparati	ve Compound 10
Application rate [kg/ha]	0.125	0.0625	0.125	0.0625
Test plants				
Chenopodium al- bum	98	95	95	80
Echinocloa cruss galli	95	95	95	90
Galium aparine	95	95	90	85
lpomoea spp.	95	90	90	80
Sinapsis alba	95	85	95	75

Table 9:

	Compound 8		Comparative C	ompound 5
Application rate [kg/ha]	0.250	0.125	0.250	0.125
Test plants Abuthilon theoprasti	98	98	85	85
Alopecurus myo- suroides	100	100	85	85
Amaranthus ret- roflexus	95	85	65	50
Echinocloa cruss galli	100	100	90	85
Gallum aparine	100	100	75	75

Table 10:

Scientific Name	common name	
Abuthilon theoprasti	velvetleaf	··
Alopecurus myosuroides	foxtail	
Amaranthus retroflexus	pigweed	7 %
Avena fatua	Wild oat	• ,
Brachiaria plantaginea	Alexander grass	
Chenopodium album	Lambsquarter	
Echinocloa cruss galli	Barnyard grass	,.,
Gallum aparine	Catchweed	
lpomoea spp.	Morning glory	·
Panicum miliaceum	Millet common	*
Polygonum persicaria	Ladysthumb	•
Setaria faberi	Foxtail giant	
Sinapsis alba	White mustard	
Triticium aestivum	Winter wheat	
Zea mays	Corn	

The data presented in tables 2 to 9 demonstrate that replacing the hydroxyl group in compounds of prior art US 6,479,436 by halogen like fluoro or chloro, by methoxy, methylthlocarbonyloxy, dimethylaminocarbonylthio or by N-bound heterocycles such as 1,2,4-triazol-1-yl or 4-oxo-1,4-dihydropyridin-1-yl lead to an increased herbicidal activity, in particular at lower application rates. The data in tables 2 and 3 demonstrate an increased tolerance by crop plants.

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4. The undersigned declares further that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishably by fine of imprisonment or both, under section 1001 of title 18 of the U.S. code and that such willful false statements may jeopardize the validity of the above-identified application or patent issuing thereon.

Ludwigshafen, 30.5.05

grather Coholl